

**HASSELBLAD****HCD 4,0-5,6/35-90 Aspherical**

## General lens data:

Focal length	36,3 (87) mm
Aperture range	4,0 (5,6) - 32
Angle of view diag/hor/vert	83°/70°/55° (39°/31°/24°)
Length/diameter	167 mm/102,5 mm
Weight	1410 g
Filter diameter	95 mm

## Close focus range data:

Minimum distance object to image plane	0.65 m
Maximum image scale	1:13 (1:5,4)
Corresponding area of coverage	64 x 48 (26 x 20) cm
Corresponding exposure reduction	0 f-stop

## Compatibility

The HCD 4,0-5,6/35-90 mm lens is not compatible with the converter H1.7x and the HTS 1.5 Tilt/Shift adapter.



## Lens Design

13 elements in 11 groups  
1 Aspherical surface

## Focus Type

Internal focusing

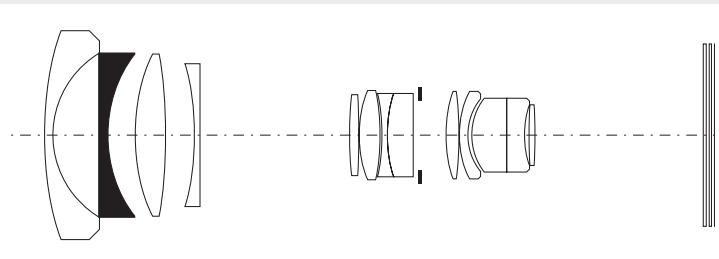
## Entrance Pupil Position

35 mm setting: 187 mm  
50 mm setting: 178 mm  
90 mm setting: 193 mm

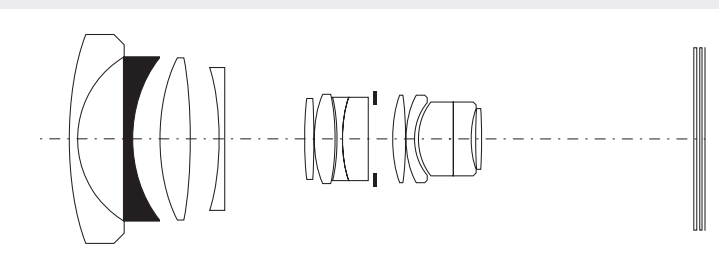
In front of the image plane  
(at infinite focus setting)

The entrance pupil position is the correct position of the axis of rotation when making a panorama image by combining individual images of a scene.

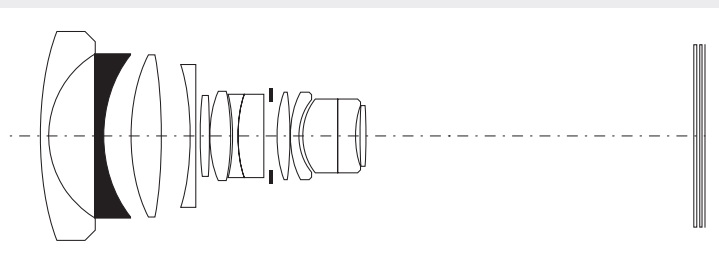
35 mm



50 mm



90 mm



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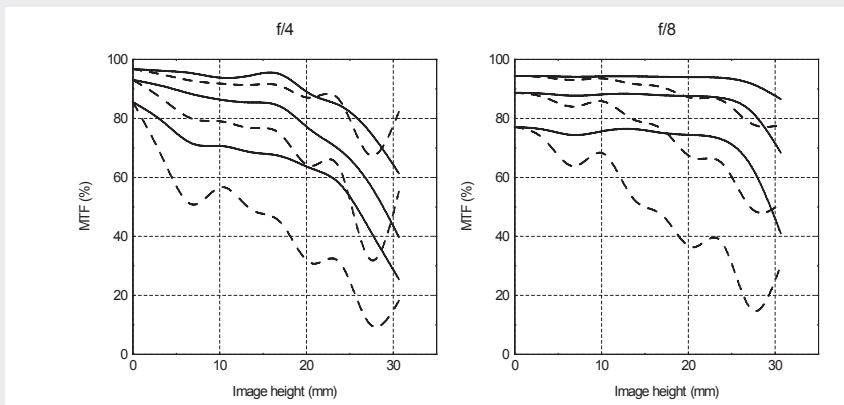
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### MTF

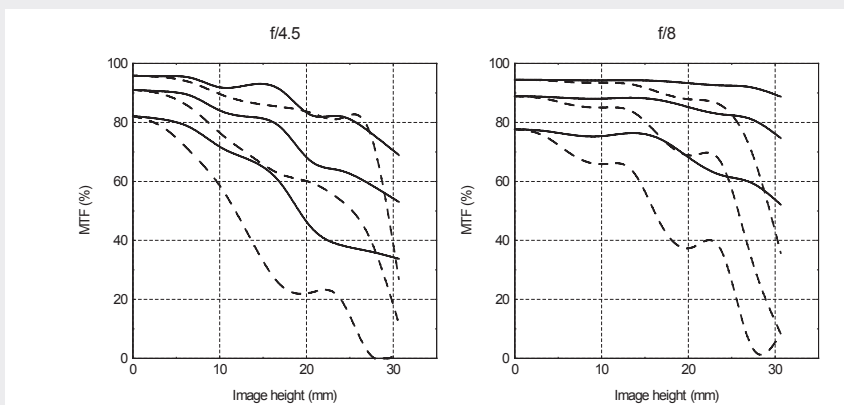
Modulation Transfer as a function of image height at infinite focus setting.

Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm

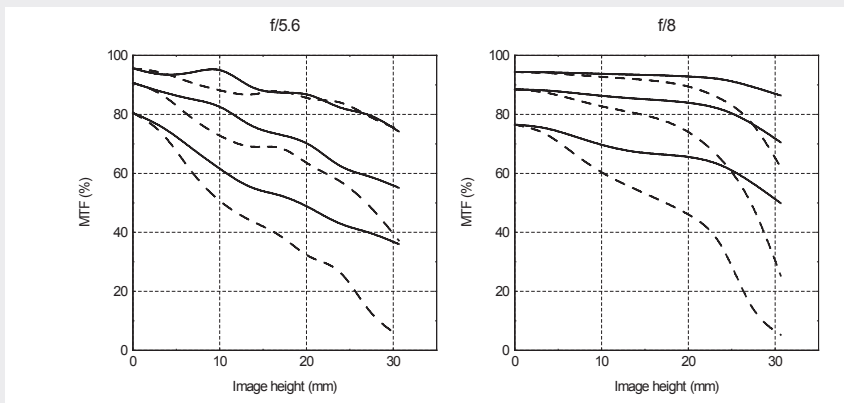
35 mm



50 mm



90 mm

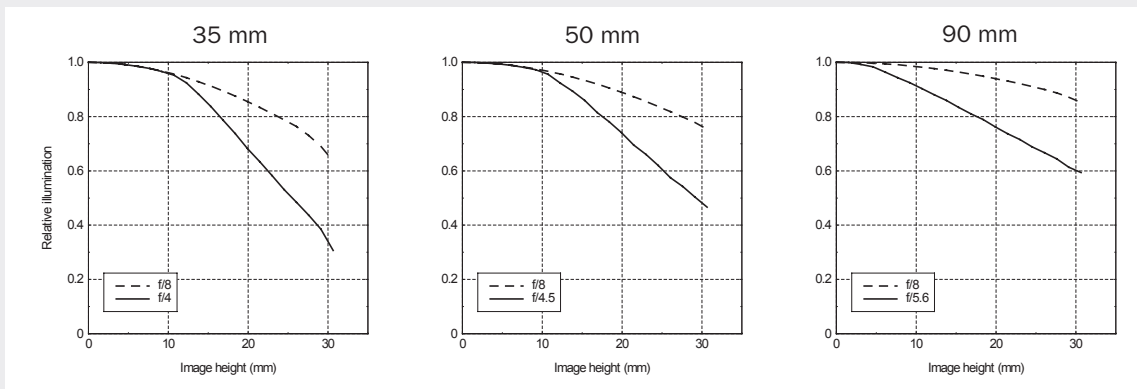


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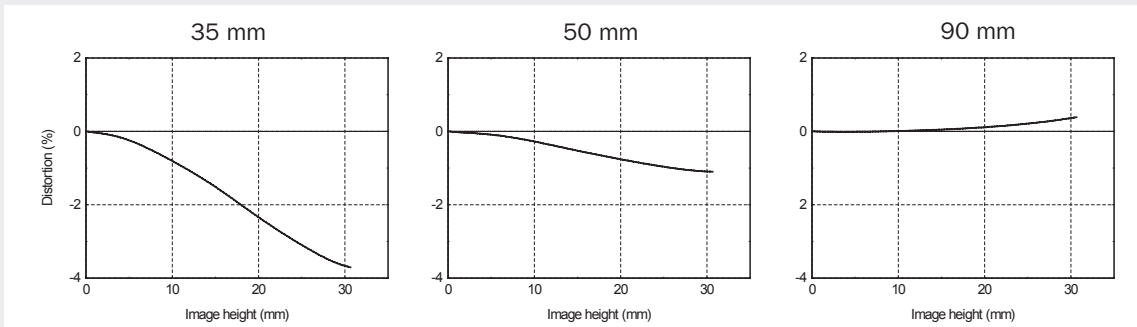
### Relative Illumination

Infinity setting



### Distortion

Infinity setting



09.08 - UK v1 preliminary. Specification subject to change without notice.